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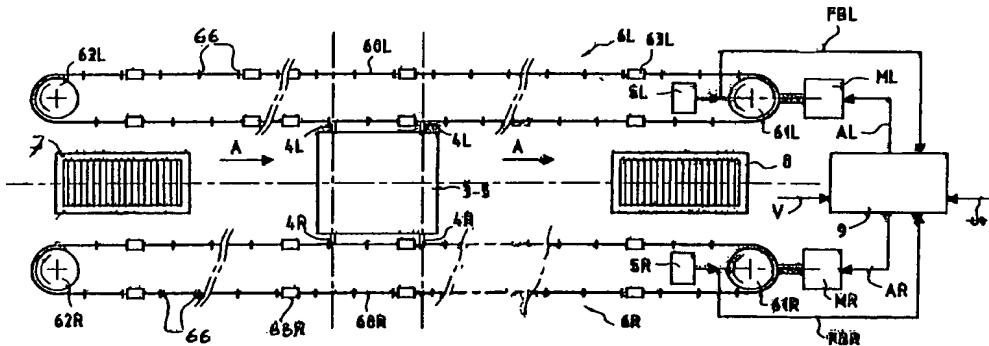
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[Suite sur la page suivante]

(54) Title: INSTALLATION FOR SEQUENTIALLY TRANSPORTING OBJECTS IN A GOODS HANDLING LINE, IN PARTICULAR FOR THE AUTOMOTIVE INDUSTRY

(54) Titre : INSTALLATION DE TRANSPORT D'OBJETS EN SERIE DANS UNE CHAINE DE MANUTENTION, EN PARTICULIER POUR L'INDUSTRIE AUTOMOBILE



A1 (57) Abstract: In a preferred embodiment, the objects to be transported, in particular motor car body shells on sleds (3, 5) are carried suspended each by four independent pendular arms (4) with two symmetrical conveyors which travel through the installation under the control of synchronized drive means to pick up said objects in a loading station and transport them individually to an unloading station. In each conveyor, said pendular arms are secured to fixed positions distributed along a cable (60) which is driven by said drive means while being maintained tensioned on guide wheels (63) defining a predetermined conveying circuit. The loads suspended via the pendular arms are solely carried by said cable between said guide wheels, said cable thus constituting both tractive and carrier means for said objects. In practice, each conveyor comprises two parallel cables and the pendulums are secured hanging therebetween.

(57) Abrégé : Dans une réalisation préférée, les objets à transporter, notamment des caisses d'automobiles sur luges (3, 5), sont véhiculés suspendus chacun par quatre bras pendulaires indépendants (4) à deux convoyeurs symétriques qui parcourent l'installation sous la commande de moyens d'entraînement synchronisés pour prendre en charge lesdits objets dans un poste de chargement et les transporter individuellement jusqu'à un poste de déchargement. Dans chaque convoyeur, lesdits bras pendulaires sont accrochés en des positions fixes réparties le long d'un câble (60) qui est mû par

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[Suite sur la page suivante]



LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG,
SK, SL, TI, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW.

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LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), brevet
eurasien (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), brevet
européen (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR),

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lesdits moyens d'entraînement tandis qu'il est maintenu tendu sur des roues de guidage (63) définissant un circuit de convoiage prédéterminé. Les charges suspendues par l'intermédiaire des bras pendulaires sont exclusivement portées par ledit câble entre lesdites roues de guidage, ledit câble constituant ainsi des moyens à la fois tracteurs et porteurs pour lesdits objets. En pratique, chaque convoyeur comporte deux câbles parallèles et les pendules sont accrochés pendants entre eux.

INTERNATIONAL SEARCH REPORT

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PCT/03/00270

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B62D65/00 B65G17/18 B65G49/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B62D B65G B61B B07B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A		3,4,6,8, 10,11
Y	WO 00 78594 A (WAGNER WOLFGANG ;HELMUT LEHMER GMBH (DE); WERNER MARC OLIVER (DE)) 28 December 2000 (2000-12-28) figure 2 page 5, last paragraph -page 6, paragraph 1 page 8, paragraph 3	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *&* document member of the same patent family

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	EP 1 104 737 A (DUERR AUTOMOTION) 6 June 2001 (2001-06-06) cited in the application abstract	12

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Information on patent family members

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